TDAQ WBS Updates

Recent Updates

- Contacted with the 12 institutes on the existing WBS (May 13) to collect
  - Interests with concrete details if possible
  - Personnel, FTEs, time profile, fully burdened rate
- Recent reminding on responses (May 27)
- Got reply from most institutes
  - Interests mostly consistent with existing understanding
  - A few new items

WBS 6.6 (Not Fully Updated)

WBS	Description	Institutes
6.6.1	Track Trigger	
6.6.1.1	L1Track	ANL, Indiana, Penn, SLAC
6.6.1.2	FTK upgrade	Chicago, NIU, UIUC
6.6.2	Calorimeter Trigger	
6.6.2.1	L0CALO	ANL, Chicago, Indiana, MSU
6.6.2.2	L1CALO(L1Global)	BNL, Chicago, Indiana, Louisiana, Oregon, Pittsburgh
6.6.3	Readout/DAQ	
6.6.3.1	FELIX	ANL, BNL
6.6.3.2	ITK Readout	SLAC

New Items

- Topo clustering in LAr DPS
  - To determine a TDAQ or LAr project
  - To work with TDAQ management for a procedure to incorporate into TDAQ scope
- Jet trigger with GPUs
  - In L1Global or common item (Event Filter)

ATLAS TDAQ WBS

WBS	description	Reference [kCHF]	Medium [kCHF]	Low [kCHF]
1.1	Level-0			
1.1.1	L0Calo			
1.1.2	Level-0 Muon RPC			
1.1.3	Level-0 Muon TGC			
1.1.4	Level-0 Muon MDT			
1.2	Hardware tracking			
1.2.1	L1Track			
1.2.2	FKT++			
1.3	L1Global			
1.4	Central Trigger Processor			
1.4.1	L0CTP			
1.4.2	L1CTP			
1.5	DAQ/HLT			
1.5.1	FELIX and Network			
1.5.2	Data Flow			
1.5.3	Event Filter			

TDAQ WBS

- ATLAS TDAQ WBS based on TDAQ IDR outline
- Our WBS may structure in line with it but slightly different

New WBS Structure (just started)

L0 Trigger	
	L0CTP (RoID)
	L0CALO
L1 Trigger	
	L1Track
	L1Global
HLT Tracking	
	FTK++
Readout/DAQ	
	FELIX
	ITK data handling

Differences from ATLAS WBS

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1.1	Level-0
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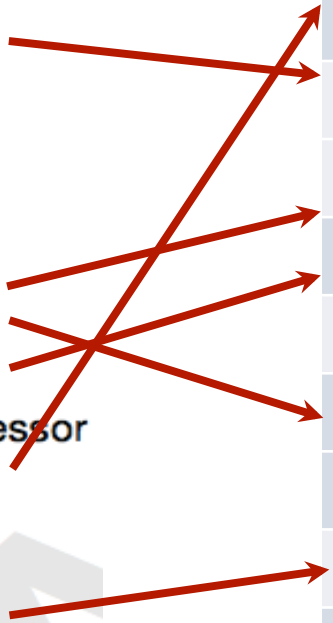
1.5.3	Event Filter



L0 Trigger	
	L0CTP (RoID)
	L0CALO
L1 Trigger	
	L1Track
	L1Global
HLT Tracking	
	FTK++
Readout/DAQ	
	FELIX
	ITK data handling

Some of the global structure is arbitrary

Does approximate consistency in grouping matter?

Differences from ATLAS WBS

- No contributions to L0 Muon
  - Need to check this with Muon groups (i.e. all there activities are in Muon

- No contributions on L1 CTP
  - We know of no current interest on this

Next Steps

- Develop WBS with input from all institutes
- Schedule a planning meeting
  - First attempt at an in person meeting failed
  - Will try again for a vidyo meeting
- Discuss with all US TDAQ institutes on WBS